

CLAIMS

1- 2. (Cancelled)

3. (Original) A mirror which comprises:

a glass substrate;

a silver coating layer on a surface of the glass substrate; and

an exposed paint layer overlaying the silver coating layer, this paint layer being an epoxy paint layer;

the mirror having at least one of the following properties:

(a) a scratch resistance determined by the Clemen test showing scratches of less than 10 μm when applying a weight of 1500 g;

(b) a hardness determined by the Persoz pendulum of at least 250 s;

(c) a commercially acceptable resistance to at least one glue selected from the group consisting of an oxime, an alcoxy, a MS polymer and a rubber glue.

4. (Original) The mirror according to claim 3, in which at least one material selected from the group consisting of bismuth, chromium, gold, indium, nickel, palladium, platinum, rhodium, ruthenium, titanium, vanadium and zinc is provided at the surface of the glass substrate which is coated with the silver coating layer.

5. (Previously presented) The mirror according to Claim 3, in which the exposed epoxy paint layer is the only layer of paint of the mirror.

6. (Previously presented) The mirror according to Claim 3, wherein the mirror has at least two of the following properties:

(a) a scratch resistance determined by the Clemen test showing scratches of less than 10 μm when applying a weight of 1500 g;

(b) a hardness determined by the Persoz pendulum of at least 250 s;

- (c) a commercially acceptable resistance to at least one glue selected from the group consisting of an oxime, an alkoxy, a MS polymer and a rubber glue.
7. (Previously presented) The mirror according to Claim 3, wherein the mirror has all of the following properties:
- (a) a scratch resistance determined by the Clemen test showing scratches of less than 10 μm when applying a weight of 1500 g;
 - (b) a hardness determined by the Persoz pendulum of at least 250 s;
 - (c) a commercially acceptable resistance to at least three glues selected from the group consisting of an oxime, an alkoxy, a MS polymer and a rubber glue.
8. (Previously presented) The mirror according to Claim 3, wherein the mirror has commercially acceptable resistance to all the glues selected from the group consisting of an oxime, an alkoxy, a MS polymer and a rubber glue:
9. (Previously presented) The mirror according to Claim 3, wherein tin is present at the surface of the glass substrate adjacent to the silver layer.
10. (Previously presented) The mirror according to Claim 3, wherein the epoxy paint layer has a thickness in the range 25-55 μm .
11. (Original) The mirror according to claim 10, wherein the epoxy paint layer has a thickness in the range 35-40 μm .
12. (Previously presented) The mirror according to Claim 3, wherein at least one material selected from the group consisting of tin, chromium, vanadium, titanium, iron, indium, copper and aluminium is present at the surface of the silver coating layer which is adjacent to the paint layer overlaying the silver coating layer.
13. (Currently Amended) The mirror according to Claim 3, wherein the silver coating layer has a thickness of 60 to 110 nm.

14. (Previously presented) The mirror according to Claim 3, wherein the epoxy paint layer is substantially lead-free.
15. (Previously presented) The mirror according to Claim 3, wherein traces of silane are present at the surface of the silver coating layer adjacent to the paint layer.
16. (Previously presented) The mirror according to Claim 3, wherein the mirror has an average edge corrosion of less than 200μ when subjected to a 120 hour CASS test.
17. (Previously presented) The mirror according to Claim 3, wherein the mirror has an average edge corrosion of less than 50μ when subjected to a 480 hour salt fog test.
18. (Original) A mirror with no copper layer which consists essentially of, in the order recited:
- a substrate in the form of a flat, soda lime glass sheet having a surface,
 - palladium and tin provided at said surface of the glass sheet,
 - a silver coating layer on said surface of the glass sheet,
 - tin present at the surface of the silver coating layer,
 - a single, exposed paint layer covering the silver coating layer, this paint layer being an epoxy paint layer;
- the mirror having all of the following properties:
- (a) a scratch resistance determined by the Clemen test showing scratches of less than $10\mu\text{m}$ when applying a weight of 1500 g;
 - (b) a hardness determined by the Persoz pendulum of at least 250 s;
 - (c) a commercially acceptable resistance to at least three glues selected from the group consisting of an oxime, an alkoxy, a MS polymer and a rubber glue;
 - (d) an average edge corrosion of less than 200μ when subjected to a 120 hour CASS test.
19. (Withdrawn) A process for manufacturing a mirror with no copper layer which comprises the following steps:
- providing a glass substrate;
 - sensitising the glass substrate by contacting it with a solution comprising ions of tin;

activating the glass substrate by contacting it with a solution comprising ions of at least one material selected from the group consisting of bismuth, chromium, gold, indium, nickel, palladium, platinum, rhodium, ruthenium, titanium, vanadium, tin and zinc; contacting the glass substrate with a silvering solution so as to form a silver coating; and applying at least one epoxy paint layer over the silvered substrate.

20. (Withdrawn) A process in accordance with claim 19, in which the epoxy paint layer is applied by curtain coating using a liquid epoxy paint having a solvent content in the range of 10% to 20% by weight.
21. (Previously presented) A mirror with no copper layer which comprises:
- a glass substrate;
 - at least one of
 - (i) palladium provided at a surface of the glass substrate;
 - (ii) at least one material selected from the group consisting of bismuth, chromium, gold, indium, nickel, platinum, rhodium, ruthenium, titanium, vanadium and zinc provided at a surface of the glass substrate;
 - a silver coating layer on said surface of the glass substrate; and
 - an exposed paint layer overlaying the silver coating layer, this paint layer being an epoxy paint layer;
- the mirror having at least one of the following properties:
- (a) a scratch resistance determined by the Clemen test showing scratches of less than 10 μm when applying a weight of 1500 g;
 - (b) a hardness determined by the Persoz pendulum of at least 250 s;
 - (c) a commercially acceptable resistance to at least one glue selected from the group consisting of an oxime, an alcoxy, a MS polymer and a rubber glue.
22. (Previously presented) A mirror according to Claim 21 having at least two of the properties (a), (b), (c).
23. (Previously presented) A mirror according to Claim 21 in which the exposed epoxy paint layer is the only paint layer of the mirror.

24. (Previously presented) A mirror according to Claim 21 in which the mirror has all the following properties:
- (a) a scratch resistance determined by the Clemen test showing scratches of less than 10 μm when applying a weight of 1500 g;
 - (b) a hardness determined by the Persoz pendulum of at least 250 s;
 - (c) a commercially acceptable resistance to at least three glues selected from the group consisting of an oxime, an alcoxy, a MS polymer and a rubber glue.
25. (Previously presented) A mirror according to Claim 21 in which the mirror has commercially acceptable resistance to all the glues selected from the group consisting of an oxime, an alcoxy, a MS polymer and a rubber glue.
26. (Previously presented) The mirror according to Claim 21 wherein tin is present at the surface of the glass substrate adjacent to the silver layer.
27. (Previously presented) The mirror according to Claim 21 wherein the epoxy paint layer has a thickness in the range 25-55 μm .
28. (Previously presented) The mirror according to Claim 27 wherein the epoxy paint layer has a thickness in the range 35-40 μm .
29. (Previously presented) The mirror according to Claim 21 wherein at least one material selected from the group consisting of tin, chromium, vanadium, titanium, iron, indium, copper and aluminium is present at the surface of the silver coating layer which is adjacent to the paint layer overlaying the silver coating layer.
30. (Previously presented) The mirror according to Claim 21 wherein the silver coating layer has a thickness of 60 to 110 nm.
31. (Previously presented) The mirror according to Claim 21 wherein the epoxy paint layer is substantially lead-free.

32. (Previously presented) The mirror according to Claim 21 wherein traces of silane are present at the surface of the silver coating layer adjacent to the paint layer.
33. (Previously presented) The mirror according to Claim 21 wherein the mirror has an average edge corrosion of less than 200 μ when subjected to a 120 hour CASS test.
34. (Previously presented) The mirror according to Claim 21 wherein the mirror has an average edge corrosion of less than 50 μ when subjected to a 480 hour salt fog test.